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### Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1-28. (Canceled)

29. (Currently Amended)

A device for hearing evaluation of a subject comprising:

means for repeatedly delivering an auditory stimulus;

means for sampling an EEG response to said stimulus; and

means for detecting when non-physiological noise is associated with said EEG response;

means for indicating when said non-physiological noise has been detected;

means for automatically determining the amount of said non-physiological noise and for

automatically determining when said amount is excessive relative to a threshold; and

wherein said threshold is derived from normative data.

30. (Canceled)

31. (Currently Amended)

A device for hearing evaluation of a subject comprising:

means for repeatedly delivering an auditory stimulus;

means for sampling an EEG response to said stimulus;

means for detecting when non-physiological noise is associated with said EEG response, for

automatically determining the amount of said non-physiological noise, and for automatically

determining when said amount is excessive relative to a threshold, wherein said threshold is

derived from normative data; and

pausing means for pausing the evaluation when said amount is excessive relative to said threshold.

32. (Canceled)

33. (Currently Amended)

A device for hearing evaluation of a subject comprising:

means for repeatedly delivering an auditory stimulus;

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means for sampling an EEG response to said stimulus, said EEG response including a noise component;  
means for determining the polarity bias of said ~~noise component~~ EEG response; and for determining when said bias is excessive relative to a threshold, wherein said threshold is derived from normative data.

- 34. (Canceled)
- 35. (Canceled)
- 36. (Currently Amended)

A device for hearing evaluation of a subject comprising:

means for repeatedly delivering an auditory stimulus comprising a noise;  
means for sampling an EEG response to said stimulus; and  
means for detecting the ambient acoustic noise associated with said EEG response other than said auditory stimulus comprising a noise, for determining the signal energy of said ambient acoustic noise, and for determining if said signal energy is excessive relative to a threshold;  
where the means for detecting the ambient acoustic noise is a microphone.

- 37. (Previously Presented) The device according to claim 36, where the means for determining if the signal energy associated with the ambient acoustic noise is excessive relative to a threshold operates by taking samples of the ambient acoustic noise at a time that interferes with the delivery of the stimulus.
- 38. (Previously Presented) The device according to claim 37, where the means for determining if the signal energy associated with the ambient acoustic noise is excessive relative to a threshold operates by taking samples of the ambient acoustic noise both before and during the time that the auditory stimulus is delivered.
- 39. (Previously Presented) The device according to claim 38, where the means for determining if the signal energy associated with the ambient acoustic noise is excessive relative to a threshold operates by analyzing a weighted energy sum of said samples.

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40. (Currently Amended)

A device for hearing evaluation of a subject comprising:

means for repeatedly delivering an auditory stimulus;  
 means for sampling an EEG response to said stimulus, said EEG response including a noise component;  
 means for detecting the magnitude of said noise component;  
 means for determining the polarity bias of said noise component EEG response;  
 means for determining when adverse evaluation conditions are present, based upon both said noise magnitude and said noise polarity bias.

41. (Currently Amended)

The device according to claim 29, ~~34, 33~~, 36, or 40, further comprising means for determining the presence of an ABR waveform.

42. (Canceled)

43. (Canceled)

44. (Currently Amended)

A method for hearing evaluation of a subject, comprising the steps of:

repeatedly delivering an auditory stimulus;  
measuring the EEG response to said stimulus;  
detecting the noise associated with said EEG response;  
automatically detecting the amount of said noise;  
automatically determining that said amount is excessive relative to a threshold, wherein  
automatically determining that said noise amount is excessive relative to a threshold  
comprises computing a composite signal noise variance;  
comparing said composite signal noise variance to a predetermined threshold; and  
~~The method according to claim 43, wherein~~  
~~automatically determining that said noise~~  
~~amount is excessive relative to a threshold~~  
~~further comprises comparing the composite~~  
~~signal noise variance to a predetermined~~  
~~threshold, and determining that the composite~~  
~~signal noise variance is greater than said~~  
~~threshold.~~

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45. (Currently Amended) The method according to claim 44, further comprising the step of pausing the testing in response to determining that said noise amount is excessive relative to a threshold.
- 4[[5]]6. (Currently Amended) The method according to claim 45, further comprising the step of determining if said EEG response contains an ABR waveform.
47. (Canceled)
48. (Currently Amended) A method for hearing evaluation of a subject, comprising the steps of:  
repeatedly delivering an auditory stimulus;  
measuring EEG responses to said stimulus;  
said EEG responses having amplitudes;  
detecting noise associated with said EEG responses;  
determining a degree of polarity bias in said noise EEG responses;  
determining when said bias is excessive relative to a threshold;  
~~The method according to claim 47, whereby~~  
determining when said polarity bias is excessive relative to a threshold comprises  
digitizing said EEG response;  
transforming said digitized EEG response into a series of binary numbers corresponding to the polarity of the amplitude of said EEG response;  
transforming said binary numbers into an array of polarity sums;  
determining the bias in said array of polarity sums; and  
comparing said bias to a predetermined threshold.
49. (Currently Amended) The method according to claim 47~~8~~, whereby determining when said polarity bias is excessive relative to a threshold comprises:  
determining the difference between the mean and the median amplitude in said EEG responses; and  
comparing said difference to a predetermined threshold.

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50. (Currently Amended) The method according to claim 478, further comprising the step of pausing the testing in response to detecting excessive levels of polarity bias in said noise.
51. (Currently Amended) The method according to claim 478, further comprising the step of determining if said EEG response contains an ABR waveform.
52. (Currently Amended) A method for hearing evaluation of a subject, comprising the steps of:  
repeatedly delivering an auditory stimulus;  
measuring EEG response to said stimulus;  
detecting the noise associated with said EEG response;  
determining the amount of said noise;  
determining the degree of polarity bias in said noise EEG response;  
determining when adverse evaluation conditions are present, based upon both said noise amount and said noise polarity bias;  
pausing the step of determining the degree of polarity bias in said EEG response.
53. (Canceled)
54. (Currently Amended) A method for hearing evaluation of a subject which comprises the steps of:  
repeatedly delivering an auditory stimulus to a subject;  
measuring an EEG response to the stimulus  
said response having a amplitude polarity at each point in time;  
digitizing said EEG response;  
transforming said digitized EEG response into a series of binary numbers corresponding to the polarity of the amplitude of said EEG response;  
transforming said binary numbers into an array of polarity sums;  
detecting the noise associated with said EEG response;  
determining the amount of said noise;  
automatically detecting when said amount is excessive relative to a threshold;  
accounting for any excessive amounts of said noise; and

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55. (Currently Amended)

determining if an EEG response contains an ABR waveform by comparing the array of polarity sums against normative data; wherein the step of accounting for excessive amounts of said noise comprises pausing the evaluation.

A method for hearing evaluation of a subject which comprises the steps of:

repeatedly delivering an auditory stimulus to a subject;  
measuring an EEG response to the stimulus said response having a amplitude polarity at each point in time;  
digitizing said EEG response;  
transforming said digitized EEG response into a series of binary numbers corresponding to the polarity of the amplitude of said EEG response;  
detecting the noise associated with said EEG response;  
determining the amount of said noise;  
automatically detecting when said amount is excessive relative to a threshold;  
accounting for any excessive amounts of said noise; and  
determining if an EEG response contains an ABR waveform by comparing the array of polarity sums against normative data[[]], wherein the step of accounting for excessive amounts of said noise comprises rejecting a portion of said array of polarity sums.

56. (Currently Amended)

A method of evaluation for hearing loss which comprises the steps of:

repeatedly delivering an auditory stimulus to a subject;  
measuring an EEG response to the stimulus said response having an amplitude polarity at each point in time;  
digitizing said EEG response;  
transforming said digitized EEG response into a series of binary numbers corresponding to the polarity of the amplitude of said EEG response;  
transforming said binary numbers into an array of polarity sums;

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- detecting the noise associated with said EEG response;  
 detecting the degree of polarity bias in said noise EEG response;  
 determining when said bias is excessive relative to a threshold;  
 accounting for any excessive bias; and  
 determining if an EEG response contains an ABR waveform by comparing the array of polarity sums against normative data.
57. (Previously Presented) The method according to claim 56, wherein the step of accounting for any excessive polarity bias comprises pausing the evaluation.
58. (Previously Presented) The method according to claim 56, wherein the step of accounting for any excessive polarity bias comprises rejecting a portion of said array of polarity sums.
59. (Canceled)
60. (Previously Presented) A method for evaluation for hearing loss comprising the steps of  
 repeatedly delivering an auditory stimulus to a subject;  
 measuring an EEG response to the stimulus;  
 detecting the ambient acoustic noise associated with said EEG response;  
 determining the signal energy of said ambient acoustic noise; and  
 determining if said signal energy exceeds a predetermined threshold; wherein the ambient acoustic noise is sampled both before and during the time the auditory stimulus is delivered.
61. (Currently Amended) A method for evaluation for hearing loss comprising the steps of;  
 repeatedly delivering an auditory stimulus to a subject wherein said auditory stimulus is a noise;  
 measuring an EEG response to the stimulus;  
 detecting the ambient acoustic noise associated with said EEG response wherein said ambient acoustic noise is a noise other than said auditory stimulus;  
 determining the signal energy of said ambient acoustic noise; and

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determining if said signal energy exceeds a predetermined threshold[[:]], wherein the ambient acoustic noise is sampled before the auditory stimulus is delivered.

62. (Currently Amended)

A method for evaluation for hearing loss comprising the steps of:  
repeatedly delivering an auditory stimulus to a subject wherein said auditory stimulus is a noise;  
measuring an EEG response to the stimulus;  
detecting the ambient acoustic noise associated with said EEG response wherein said ambient acoustic noise is a noise other than said auditory stimulus;  
determining the signal energy of said ambient acoustic noise; and  
determining if said signal energy exceeds a predetermined threshold[[:]], wherein the ambient acoustic noise is sampled during the time the auditory stimulus is delivered.

63. (Canceled)

64. (Currently Amended)

A system for hearing evaluation of a subject comprising:  
a transducer having an audible click output stimulus;  
an electrode system adapted to detect an EEG response to said stimulus; and  
a processor, responsive to said EEG response, having:  
means for sampling the EEG response;  
means for processing the sampled EEG response and identifying therein a noise component and an evoked ABR component;  
means for pausing the evaluation when noise component exceeds a threshold;  
and  
means for automatically determining when said noise component contains a non-physiological component.



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65. (Canceled)

66. (new)

The method according to claim 48 wherein said noise comprises non-physiologic (asymmetric) noise and symmetric noise further comprising the step of detecting said non-physiologic (asymmetric) noise separate from said symmetric noise.

67. (new)

The method according to claim 52 wherein said noise comprises non-physiologic (asymmetric) noise and symmetric noise further comprising the step of detecting said non-physiologic (asymmetric) noise separate from said symmetric noise.

66. (new)

The method according to claim 56 wherein said noise comprises non-physiologic (asymmetric) noise and symmetric noise further comprising the step of detecting said non-physiologic (asymmetric) noise separate from said symmetric noise.